

This listing of claims will replace all prior versions and listings of claims in the application:

**LISTING OF CLAIMS:**

1. (Currently Amended) A metal-air cathode assembly ~~for a metal-air cell, the metal-air cell cathode assembly comprising: including~~  
an air diffusion layer equipped to receive ~~receiving~~ air and ~~delivering~~ deliver the received air to the cathode assembly, ~~the cathode assembly comprising: ; and,~~  
an active layer including longitudinally extending electrically conducting wires interwoven with laterally extending electrically conducting wires that intersect at joints to form a mesh, and a metal comprising nickel deposited onto the wires that bonds the longitudinally extending wires to the laterally extending wires at the joints to form a screen.
2. (Canceled)
3. (Currently Amended) The cathode assembly as recited in claim 2 1, wherein the ~~nickel~~ metal is electroplated onto the wires.
4. (Currently amended) The cathode assembly recited in claim 3 1, wherein the ~~nickel~~ metal is deposited by ~~one of~~ electroless deposition, sputter deposition, ~~and or~~  
chemical deposition.
5. (Currently amended) The cathode assembly as recited in claim 2 1, wherein the ~~nickel~~ metal forms nodules that protrude outwardly from an outer surface of the wires.
6. (Original) The cathode assembly as recited in claim 5, wherein the outer surface deposit comprises columnar grains.
7. (Original) The cathode assembly as recited in claim 6, further comprising

nodules extending from the surface wherein the nodules are between 10 to 100  $\mu\text{m}$  in diameter.

8. (Original) The cathode assembly as recited in claim 5, wherein the outer surface and nodules further comprise grains having diameters between 1 and 30  $\mu\text{m}$ .

9. (Original) The cathode assembly as recited in claim 5, wherein the nodules occupy between 5 and 50 percent of a surface area of the nickel.

10. (Original) The cathode assembly as recited in claim 1, wherein the wires comprise nickel.

11. (Original) The cathode assembly as recited in claim 1, wherein the wires comprise a transition metal.

12. (Currently Amended) The cathode assembly as recited in claim 1, further comprising ~~a mixture of carbon and PTFE~~ an active carbon catalyst disposed on an outer surface of the screen.

13-63. (Canceled)

64. (New) The cathode assembly as recited in claim 12, wherein the active carbon catalyst comprises a mixture of carbon and PTFE in contact with the screen.